



# Weekly Construction Report

## Hatchery Creek Design/Build Project



<b>Week:</b>	October 6-11, 2014	<b>Project No:</b>	1305
<b>Rain Days/Weather Conditions:</b>	Rained 0.6" Monday-Tuesday, 0.8' on Thursday, & .0.7" on Friday for a total of 2.1" this week (Burkesville gauge).		
<b>Personnel on-site:</b>	<i>EcoGro/Ridgewater:</i> John Arthur, Tony Berry, Tom Cutter, Eric Dawalt, Jim Hanssen, Jon Linder, Chad Relinski, Brad Redmon, & Russ Turpin. <i>Stantec:</i> N/A		
<b>Equipment on-site:</b>	Komatsu PC 160 w/ hyd. thumb, PC 360 w/ hyd. thumb, Terex TA27, Bobcat T300		
<b>Material deliveries to project site:</b>	<ul style="list-style-type: none"> <li>N/A</li> </ul>		
<b>Work performed this week:</b>	<ul style="list-style-type: none"> <li>Repaired mass slope failure of existing ravine soil bank on right side of temporary diversion channel. It was apparently caused by saturation of the soil due to water seepage from the channel along a buried "<b>solution feature</b>". The solution feature is roughly horizontal and appears to consist of a 2- to 6-inch layer of manganese, iron, and/or other minerals, possibly at a former water table level.</li> <li>Installed temporary clay dam (covered in rock) in existing "rip rap channel" to divert all of flow from Hatchery into temporary diversion channel. A temporary rock dam that allowed less than one cfs of seepage was installed the previous week. The seepage was needed to keep the trout alive in the drained section of channel until they could be removed by KDFWR and/or USFWS personnel.</li> <li>Continued excavating floodplain RT Sta. 115+00 to 116+80.</li> <li>Finished constructing soil subgrade of ravine riffle at ~RT Sta. 304+20 and bottom of pool under existing bridge.</li> <li>Cleared trees and started filling the existing ravine downstream of the bridge with compacted soil fill (but not necessarily clay).</li> <li>Built compacted clay core in fill centered at ~25 LT from Sta. 105+70 to 106+80, which will reduce seepage from the new stream into the existing ravine toward the river.               <ul style="list-style-type: none"> <li>It included excavating a 5-foot wide key ~ 5' deeper than the existing stream grade to elevation 567' and compacting clay in it with the excavator bucket.</li> <li>Once above the existing stream grade, the compacted clay core was constructed 15+ wide with a sheepsfoot compactor.</li> <li>The clay core was built up to elev. 577' this week.</li> <li>There were two buried solution features, one at ~elevation 580' and one at ~587' in the sides of soil trench excavated for the compacted clay core. We are over-excavating the upper layer to reduce seepage.</li> </ul> </li> </ul>		
<b>Erosion &amp; sediment controls installed:</b>	❖ Installed rock check dam in ravine downstream of fill area.		



# Weekly Construction Report

## Hatchery Creek Design/Build Project



<b>Work scheduled for next week:</b>	<ul style="list-style-type: none"> <li>Continue excavating for floodplain and channel upstream of Campground Road (113+00 to 116+80) and haul clay to ravine.</li> <li>Finish compacted clay fill in ravine stream crossing ~Sta. 106+00 to 106+60.</li> <li>Continue delivering boulders for step pools and start delivering 18" D50 rock for step pools as weather allows.</li> <li>Sieve 12"+ rock from previously sieved rock (6"+) at Disposal Area.</li> </ul>
<b>Work planned for two weeks ahead:</b>	<ul style="list-style-type: none"> <li>Construct channel from ~Sta. 110+00 to 116+80.</li> <li>Continue delivering boulders and 18" D50 rock for step pools as weather allows.</li> </ul>
<b>General Comments:</b>	<ul style="list-style-type: none"> <li>The 2"+ of rain reduced production this week.</li> <li>We are over-excavating the upper solution feature adjacent to ravine in order to prevent seepage from the stream through it.</li> </ul>
<b>Prepared by:</b> Eric Dawalt, P.E.	<b>Date:</b> 10-13-14

### Pictures from this week's construction:



***Installing temporary clay dam in existing "rip rap channel" in Public Fishing Area (~Sta.104+00) to divert all flow into temporary diversion channel. It was subsequently covered in rock.***



# Weekly Construction Report

## Hatchery Creek Design/Build Project



***Mass slope failure of existing ravine soil slope on right side of temporary diversion rock chute channel (~200 LT of Sta.106+00).***

Irregular, dark brown layer is "solution feature"

Flow along "solution feature"



***Close up of same photo showing "solution feature" in soil with water pouring out of it.***





# Weekly Construction Report

## Hatchery Creek Design/Build Project



***Repairing mass slope failure of ravine soil bank adjacent to temporary diversion channel. (~200 LT of Sta.105+50).***



***Clearing trees in ravine downstream of bridge (looking downstream/LT from RT Sta.106+30).***





# Weekly Construction Report

## Hatchery Creek Design/Build Project



***Ravine after clearing. (Looking upstream/RT at ~Sta.106+00).***



***Filling ravine with compacted soil fill (Looking upstream/RT at ~Sta.106+00). Pool subgrade under bridge was raised 8'+ to protect bridge abutments and reduce risk to fisherman and pedestrians of deep pools with steep banks.***





# Weekly Construction Report

## Hatchery Creek Design/Build Project



***Excavating trench to install compacted clay core (looking upstream across ravine toward Hatchery at ~LT Sta.107+00).***





# Weekly Construction Report

## Hatchery Creek Design/Build Project



***Core trench showing "solution feature" layers in existing ravine soil bank similar to layer along temporary diversion (looking downstream from ravine at ~LT Sta.106+60).***



***"Solution feature" layer (brownish/blackish mineral layer) in existing ravine soil bank (6" scale shown for reference).***





# Weekly Construction Report

## Hatchery Creek Design/Build Project



***Compacting clay core built up to ~ Elev. 577' (looking downstream across ravine at ~LT Sta.105+80).***



***This salamander was rescued from construction area and placed in the woods. The new stream and wetlands will provide much more habitat for salamanders and amphibians, as well as trout.***